

Identify Data Gaps and Available Analytical Tools

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November 2004

Overview of Presentation

- ◆ **Identification of data gaps**
- ◆ **Identification of available analytical tools and potential needs**
- ◆ **Development of work plans to obtain information or meet analytical needs**

Assessment of Data Gaps

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◆ **Preparing extensive bibliography**

◆ **Identifying data gaps**

- ⌘ Developed during preparation of Preliminary Existing Baseline Conditions and No Action Alternative reports

- ⌘ Modified based on recent information

◆ **Develop Work Plans to meet data gaps**

- ⌘ Obtain remaining information that is available to the public

- ⌘ Determine time needed to obtain additional data

- ⌘ Consider approach if data is not available

Focus of Data Gaps Efforts

- ◆ **Water quality and hydrology in the Salton Sea watershed**
- ◆ **Biological resources**
- ◆ **Recreation in the watershed and surrounding areas**
- ◆ **Economics and socio-economics**
- ◆ **Land use plans**
- ◆ **Cultural resources**
- ◆ **Air quality**
- ◆ **Potential for selenium bioaccumulation**

Assessment of Analytical Tools

What is an Analytical Tool?

◆ **Numerical procedure to:**

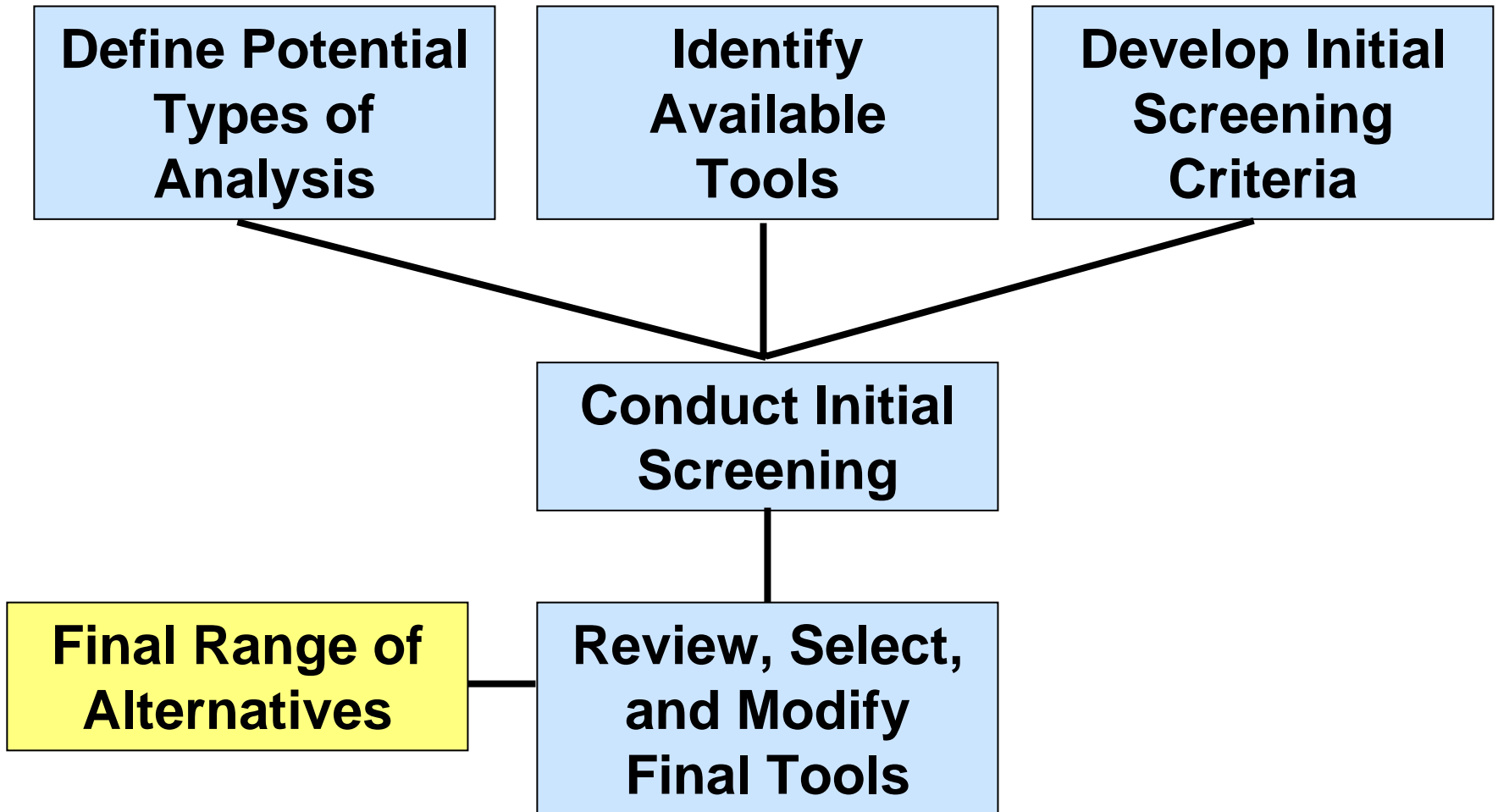
- ⌘ Describe the physical, biological, and/or social environments
- ⌘ Describe relationships between the environments
- ⌘ Allow for variable conditions to simulate changes

◆ **Types of analytical tools range from "spreadsheets" to complex models**

Why use Analytical Tools?

- ◆ **Many interactions between physical, biological, and/or social environments can be represented with "cause-and-effect" mathematical relationships**
- ◆ **Facilitate review of potential impacts due to modification of numerical assumptions**
- ◆ **Impact assessments may require that these relationships be used repetitively or in an iterative manner**

Assessment of Analytical Tools



Potential Types of Analysis

- ◆ **Salton Sea hydrology, water quality, sediment transport, and circulation**
- ◆ **Groundwater flows that affect Salton Sea**
- ◆ **Habitat conditions**
- ◆ **Response of biological resources**
- ◆ **Economics**
 - ⌘ Agricultural
 - ⌘ Recreation
 - ⌘ Community and regional

Information Collected for Each Tool

- ◆ **Type of analysis**

- ◆ **Name and description**

- ◆ **Responsible agency and/or author**

- ◆ **Status of model**

 - ⌘ Programming and input data complete?

 - ⌘ Calibration/verification, if required?

 - ⌘ Available for public review?

- ◆ **Capability of model**

 - ⌘ Geographical area coverage and physical features

 - ⌘ Time step and level-of-detail

 - ⌘ Linkage to other tools

 - ⌘ Need for/feasibility of modifications (determined later)

Summary

- ◆ **Compiling list of known data gaps**
- ◆ **Compiling initial list of analytical tools and preliminary descriptions**
- ◆ **Will define next steps and develop appropriate work plans for data gaps and analytical tools**